Commonwealth of Kentucky Division for Air Quality

PERMIT APPLICATION SUMMARY FORM

Completed by: Zari Hariri

GENERAL INFORMATION:		
Name:	Huntington Alloys Corporation	
Address:	29500 Mayo Trail Road	
	Burnaugh, KY 41129	
Date application received:	6/2/2005	
SIC Code/SIC description:	3356, Rolling, Drawing, and Extruding of	
•	Nonferrous Metals, Except Copper and Aluminum	
Source ID:	21-019-00013	
Agency Interest:	329	
Activity:	APE20060001	
Permit:	F-07-048	
APPLICATION TYPE/PERMIT ACTIVITY:		
[x] Initial issuance	[] General permit	
[] Permit modification	[x] Conditional major	
Administrative	[] Title V	
Administrative Minor	[x] Synthetic minor	
vimor Significant	[x] Operating	
	[] Construction/operating	
[] I clinit lenewar	[] Construction operating	
COMPLIANCE SUMMARY:		
[] Source is out of compliance	[] Compliance schedule included	
[x] Compliance certification signed		
APPLICABLE REQUIREMENTS LIST:		
[] NSR [] NS	SPS [x] SIP	
[] PSD	ESHAPS [] Other	
[] Netted out of PSD/NSR [] No	et major modification per 401 KAR 51:001, 1(116)(b)	
MISCELLANEOUS:		
[] Acid rain source		
Source subject to 112(r)		
[x] Source applied for federally enfo	rceable emissions cap	
[] Source provided terms for alternation		
[] Source subject to a MACT stand	ard	
[] Source requested case-by-case 112(g) or (j) determination		
[] Application proposes new control	ol technology	
[] Certified by responsible official		
[] Diagrams or drawings included		
[] Confidential business informatio	n (CBI) submitted in application	
[] Pollution Prevention Measures		
[] Area is non-attainment (list pollu	itants):	

EMISSIONS SUMMARY:

Pollutant	Potential (tpy)	Actual (tpy) ²	Allowable (tpy)
PM/PM_{10}	216/218	3.08/3.08	<90
SO_2	0.23	0.04	NA
NOx ¹	38.3	9.82	NA
СО	32.2	2.14	NA
VOC	2.46	0.21	NA
Single HAPs > 9 tpy Nickel (CAS# 7440-02-0) Chromium (CAS# 7440-47-3)	23.9 79.3	0.001 0.0002	< 9
Source wide HAPs > 22.5 tpy	79.3	0.53398	< 22.5

^{1.} As NO2 in KY EIS 2006 report.

SOURCE DESCRIPTION:

Huntington Alloys Corporation (Huntington Alloys) owns and operates a nickel alloys manufacturing facility, located in Burnaugh, Kentucky. Huntington Alloys manufacturers nickel and high-nickel alloys in various shapes, ingots, billets and tubing. Manufacturing processes at the site include melting of metals to produce alloy ingots; extruding and tube-reducing to form tubing products; heat-treating to aid processing and improve physical characteristics of the formed product. Manufacturing portions of the facility consist of three main buildings, these are: a raw materials building (Building 02, Department 40) where raw materials are melted down in an air induction furnace and shaped into molds; an extrusion building (Building 03, Department 50) where rods are processed into tubes; and the special projects building (Building 01, Department 30) where metal powders are blended and processed through an atritter to form semi-finished products. The Standard Industrial Classification (SIC) Code for this source is 3356, *Rolling, Drawing, and Extruding of Nonferrous Metals, Except Copper and Aluminum*.

Huntington Alloys is currently operating under permits C-83-99, issued on July 1, 1983, C-86-032, issued on January 21, 1986, C92-016, issued on January 16, 1992, and S-95-254, issued on December 4, 1995. A request for renewal of S-95-254 as a source-wide operating permit was received by the Division on June 5, 2005, and a subsequent request to construct a new electroslag remelting furnace on July 3, 2006. The permittee has requested the continuance of previously established voluntary limits on production such that the potential to emit (as defined in 401 KAR 52:001, Section 1 (56)) of particulate matter (PM/PM10), any single hazardous air pollutant (HAP) and the combination of HAPs remains less than established major source thresholds. This operating approval is the initial Conditional Major Permit issued to this source pursuant to the provisions of 401 KAR 52:030, Federally Enforceable Permits for Nonmajor Sources. Due to the removal of previously approved equipment, i.e., EP 02(02) - electroflux remelt furnace; EP 04(18) - boiler, Dept. 30; EP 06(20) - boiler, Dept. 40; EP 16(15,16) - grinding; EP 20(04) - induction furnace; and EP 21(03) - shell mold oven; the installation of new EP 27 (electroflux remelt furnace) which commenced operation on

^{2.} Actual emissions are from the Kentucky Division for Air Quality's 2006 Emissions Inventory report.

February 26, 2007; and the continued use of particulate emissions control equipment, the prior voluntary limits on material usage and production are revised such that the source shall be in compliance with the prescribed emission limits provided in Section D of the permit.

EMISSIONS AND OPERATING CAPS DESCRIPTIONS:

To preclude the applicability of 401 KAR 52:020, *Title V permits*, the total annual source-wide emissions shall not exceed the following limitations on a twelve (12) consecutive month basis:

- a. Particulate matter (PM/PM₁₀) emissions: 90 tons per twelve (12) consecutive month basis;
- b. Any single hazardous air pollutant (HAP): 9 tons per twelve (12) consecutive month basis; and
- c. Combined hazardous air pollutant (HAPs): 22.5 tons per twelve (12) consecutive month basis.

The permittee shall continue to apply voluntary limits on material usage and use of particulate control devices (baghouse for EP 18, 23, 25, 26, and 27; fume control for EP 07, EP 08, EP 09, EP 10, EP 11, EP 12) in order to comply with the specified emission limits. Related enforceable monitoring, record keeping and reporting requirements are included in the permit. The potential to emit all other criteria pollutants will be less than 100 tons per year each. Since this source is one of the 28 listed source categories, compliance with these permit limits shall also preclude this source from being a major stationary source and the requirements of 401 KAR 51:017, *Prevention of Significant Deterioration of Air Quality* are not applicable to this source.